

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended): Audio and video data processing device for multimedia communication, via an asynchronous network with random transmission times, between a first pair consisting of a first audio communication terminal and a first video communication terminal, a second pair consisting of a second audio communication terminal and a second video communication terminal, the said terminals being of the LAN type, where at least the first pair consists of independent and asynchronous terminals, and the processing device includes, in association with this first pair, connection means for the setting up of:

a video link between these connection means and the video terminal of the first pair,
an audio link between these connection means and the audio terminal of the first pair,
a video link between these connection means and the second pair, and
an audio link between these connection means and the second pair,

wherein the connection means synchronizes audio and video data according to a delay,

~~and~~ wherein the video packets are transmitted without delay, and the audio packets are delayed for a predetermined time period, and

wherein the connection means comprises first dating means arranged to attach a transmit time mark and an identifier to audio and video data coming from the first audio communication terminal and the first video communication terminal respectively before their transmission to the second pair via a local network and to attach a receive time mark to the audio and video data coming from the second pair and containing an identifier and a transmit time mark.

2. (Currently Amended): The device according to claim 1, characterized in that the said connection means further includes:

~~first dating means arranged to attach a transmit time mark and an identifier to audio and video data coming from the first audio and video communication terminal respectively before their transmission to the second pair via the said local network and to attach a receive time mark to the audio and video data coming from the said second pair and containing an identifier and a transmit time mark, and~~

processing means to determine a time difference representing the transmission time difference between the received audio and video data and having the same identifier from their respective transmit and receive time marks, and then to delay by a value representing the said time difference the transmission of the said received audio data at the said first audio communication terminal in relation to the transmission of the said received video data at the said first video communication terminal.

3. (previously presented): The device according to claim 2, characterized in that the said processing means are arranged so as to determine a time difference representing the said transmission time difference and a coding and decoding time difference between the received audio and video data and having the same identifier.

4. (previously presented): The device according to claim 2, characterized in that the said processing means are arranged so as to determine the said time difference from the transmit and receive time markings of the said received audio and video data, and from values

representing their respective transmission times between the second audio and video communication terminals of the second pair which transmitted them, and other connection means associated with the second pair.

5. (previously presented): The device according to claim 4, characterized in that the said links between the second audio and video communication terminals and the other connection means associated with the second pair are of the “deterministic” type.

6. (previously presented): The device according to claim 2, characterized in that the said processing means are arranged so as to determine the said time difference from the transmit and receive time markings of the said received audio and video data, and from values representing their respective transmission times between the said connection means and the first audio and video communication terminals for which they are intended.

7. (previously presented): The device according to claim 6, characterized in that the said links between the said connection means and the first audio and video communication terminals are of the “deterministic” type.

8. (previously presented): The device according to claim 2, characterized in that the said dating means are also arranged so as to attach data, representing a priority level, to the said audio data and video data to be transmitted to the other connection means .

9. (Previously Presented): The device according to claim 8, characterized in that the said priority level associated with the said video data is lower than the said priority level associated with the said audio data.

10. (previously presented): The device according to claim 1, characterized in that the said connection means provide a function of the proxy type for the said audio data and video data.

11. (previously presented): The audio communication terminal of the LAN type , characterized in that it includes a processing device according to claim 1.

12. (previously presented): The video communication terminal of the LAN type , characterized in that it includes a processing device according to claim 1.

13. (previously presented): The communication unit , characterized in that it includes a processing device according to claim 1.

14. (Cancelled).

15. (Previously Presented): The device of claim 1 wherein the synchronization of audio and video occurs once at the connection means and once at the pair.

16. (Previously Presented): The device according to claim 1, wherein the video data is transmitted from one of the first video communication terminal and the second video communication terminal to a receiving terminal of one of the first video communication terminal and the second video communication terminal without delay, and the audio data is delayed by the predetermined time before being transmitted to a receiving audio communication terminal.